


Integrating Information: Crossing Boundaries



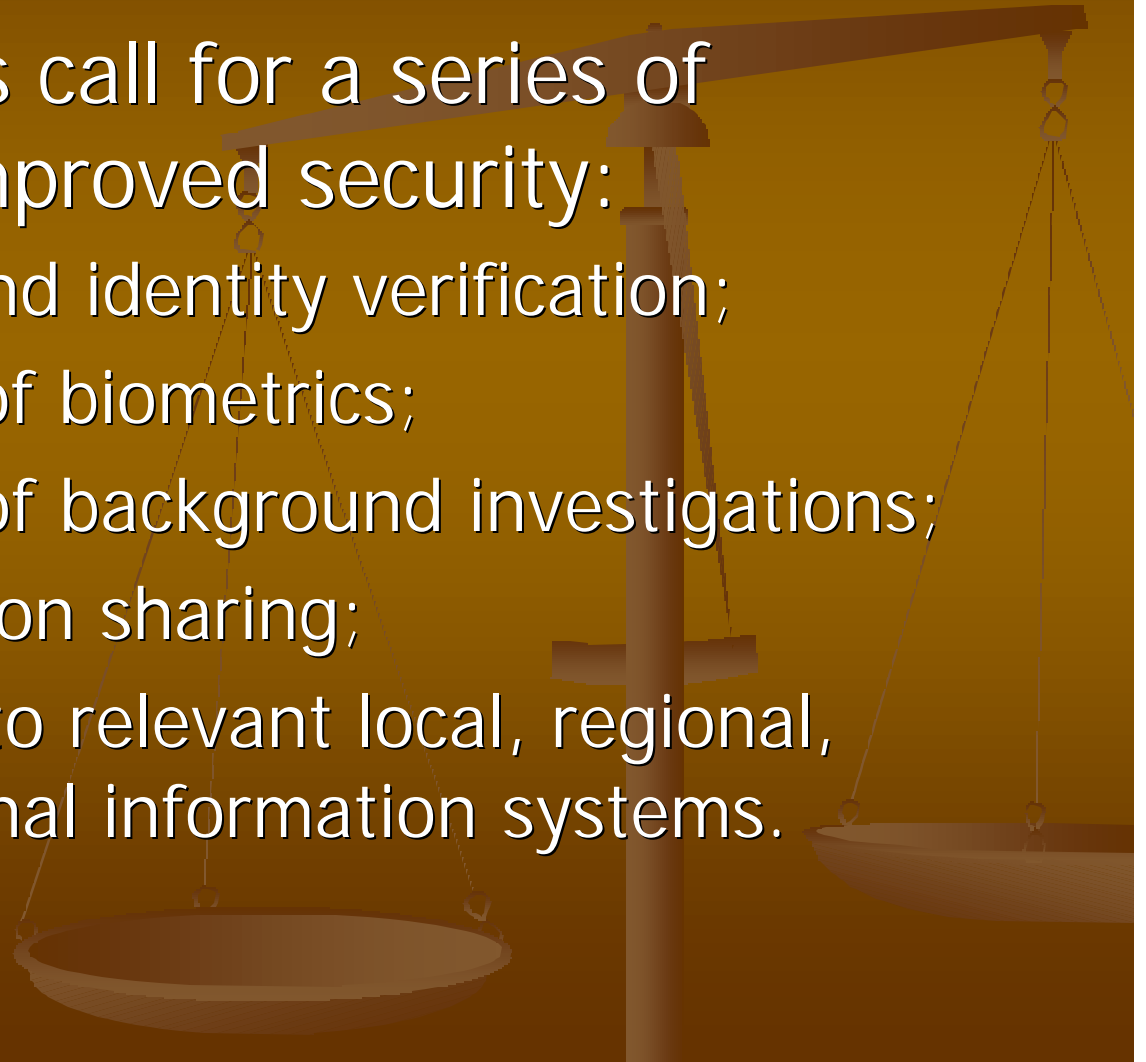
David J. Roberts
2002 Digital Government
Boot Camp for Idaho Policy Makers

Assessing the Impact of 9/11

- There are a host of legislative and policy initiatives emerging from the terrorist attacks of September 11, 2001 that have significant IT implications for the nation:
 - USA Patriot Act (Pub. L. No. 107-56);
 - Aviation & Transportation Security Act (Pub. L. No. 107.71);
 - Immigration Reform Act;
 - Trusted passenger programs of industry;
 - FAA regulations regarding airport personnel; etc.

IT Implications

- These initiatives call for a series of measures for improved security:
 - Identification and identity verification;
 - Expanded use of biometrics;
 - Expanded use of background investigations;
 - Broad information sharing;
 - Instant access to relevant local, regional, state and national information systems.

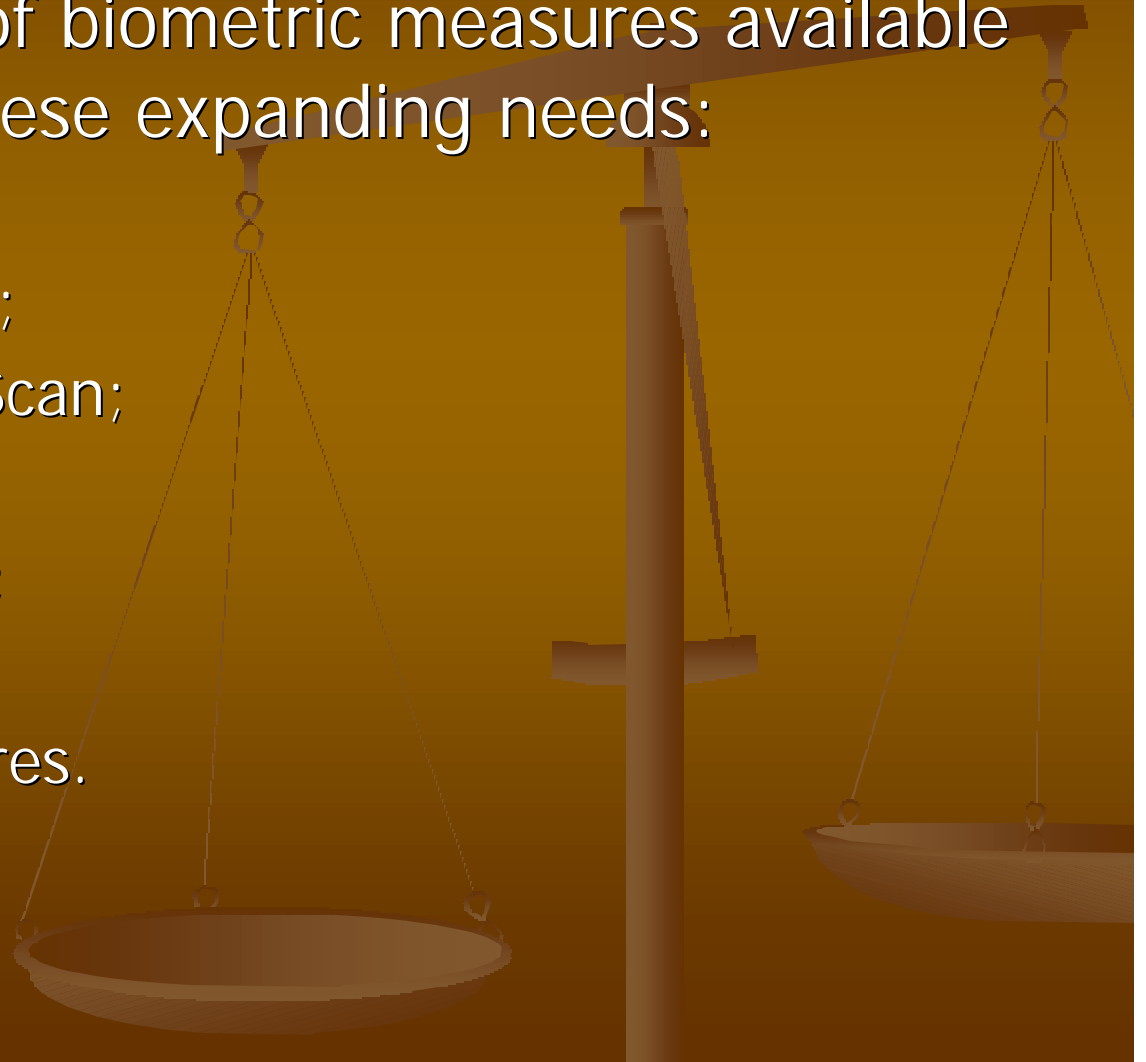


Initiative Objectives

- At least two major objectives of these initiatives:
 - Exclude people who are clearly inappropriate (e.g., known terrorists) from entering the country, boarding planes, etc.---*identification*;
 - Assess the suitability and security of people to enter or have access to secured areas and resources (trusted passengers, etc.)---*verification*.
- Require rather different technologies and access to databases.

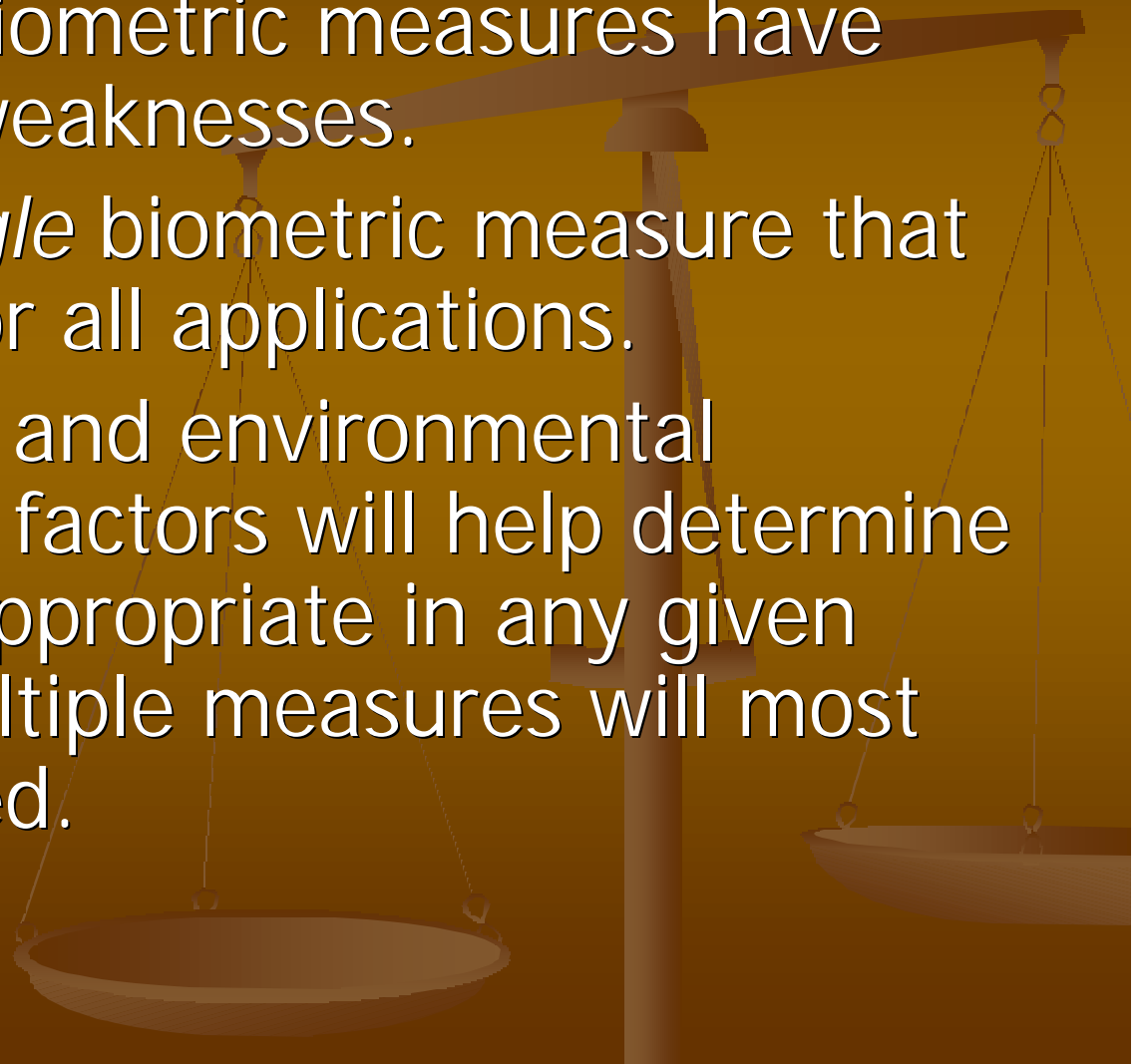
Biometric Observations

- There are a host of biometric measures available to help address these expanding needs:
 - Fingerprints;
 - Facial Recognition;
 - Iris Scan/Retinal Scan;
 - DNA Profiles;
 - Voice Recognition;
 - Signature;
 - Behavioral measures.



Biometric Observations

- Each of these biometric measures have strengths and weaknesses.
- There is no *single* biometric measure that is *the* answer for all applications.
- Purposes, costs and environmental implementation factors will help determine which is most appropriate in any given setting, and multiple measures will most likely be required.



Biometric Observations

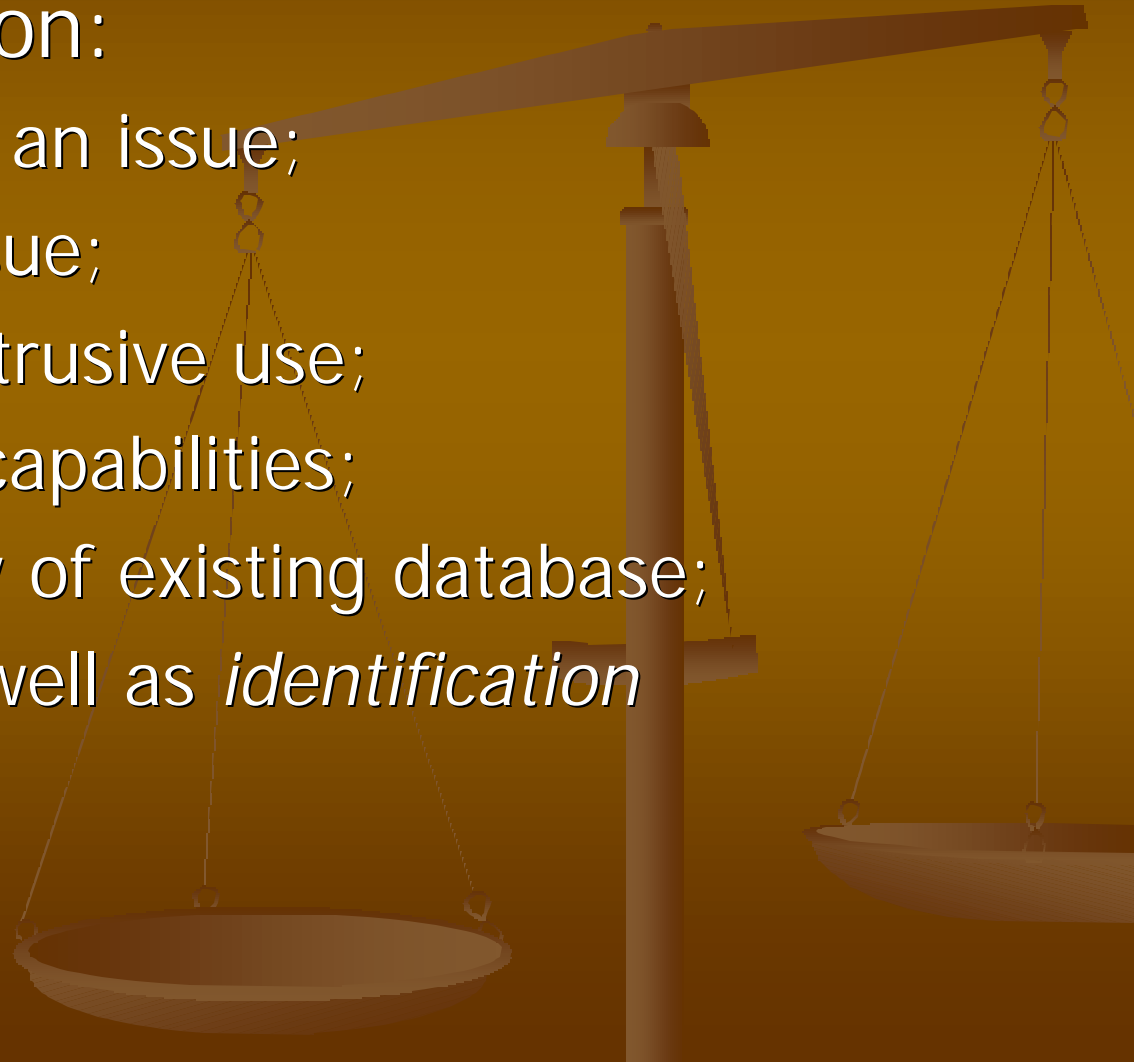
■ Fingerprints:

- Large existing databases;
- Forensic capabilities;
- Diminishing costs of technology;
- Broad public acceptance and confidence;
- Emerging flat fingerprint technologies;
- Relatively unobtrusive use;
- *Verification as well as identification capabilities.*



Biometric Observations

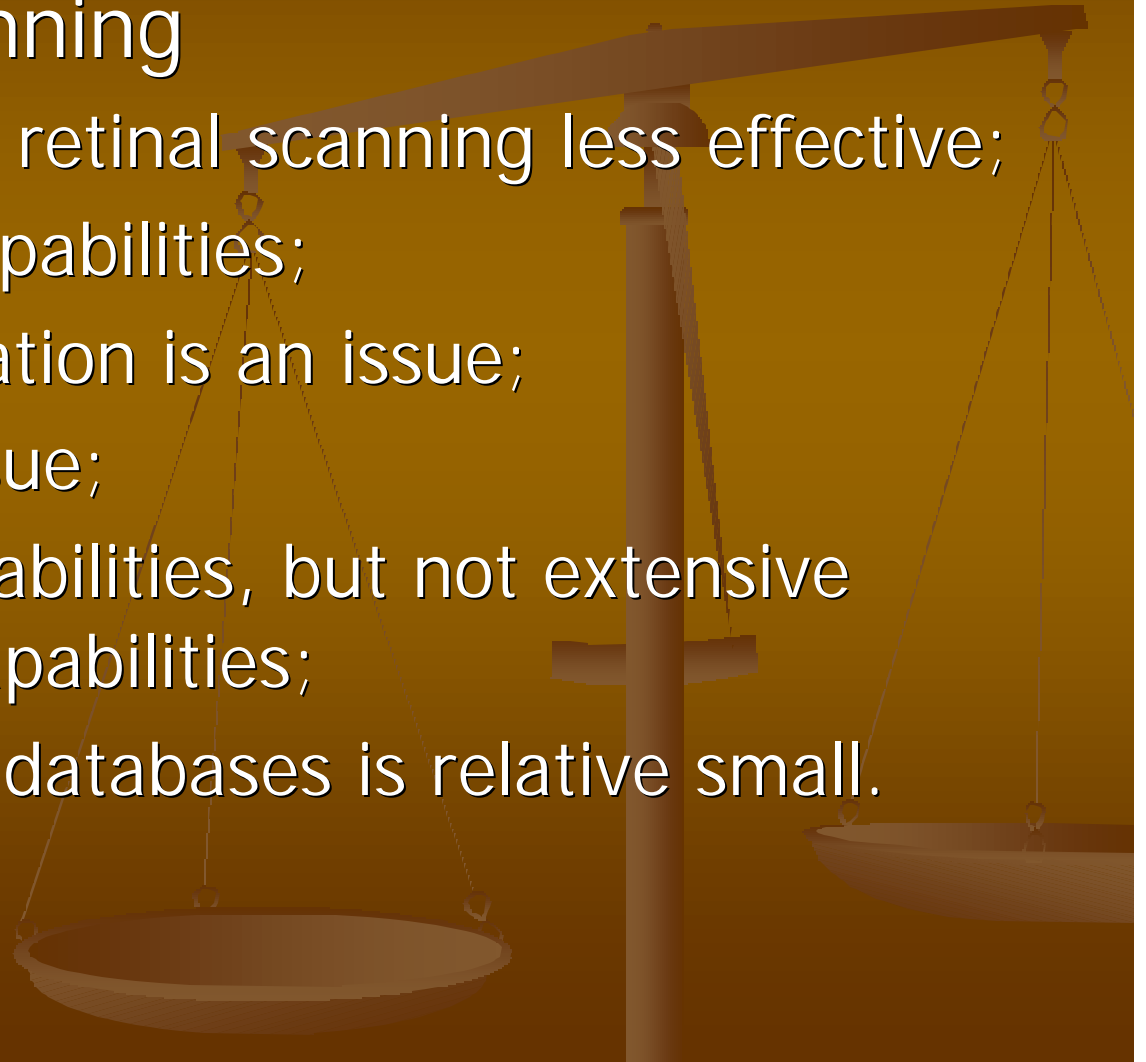
- Facial Recognition:
 - Effectiveness is an issue;
 - Costs are an issue;
 - Relatively unobtrusive use;
 - Some forensic capabilities;
 - Size and quality of existing database;
 - *Verification* as well as *identification* capabilities.



Biometric Observations

■ Iris/Retinal Scanning

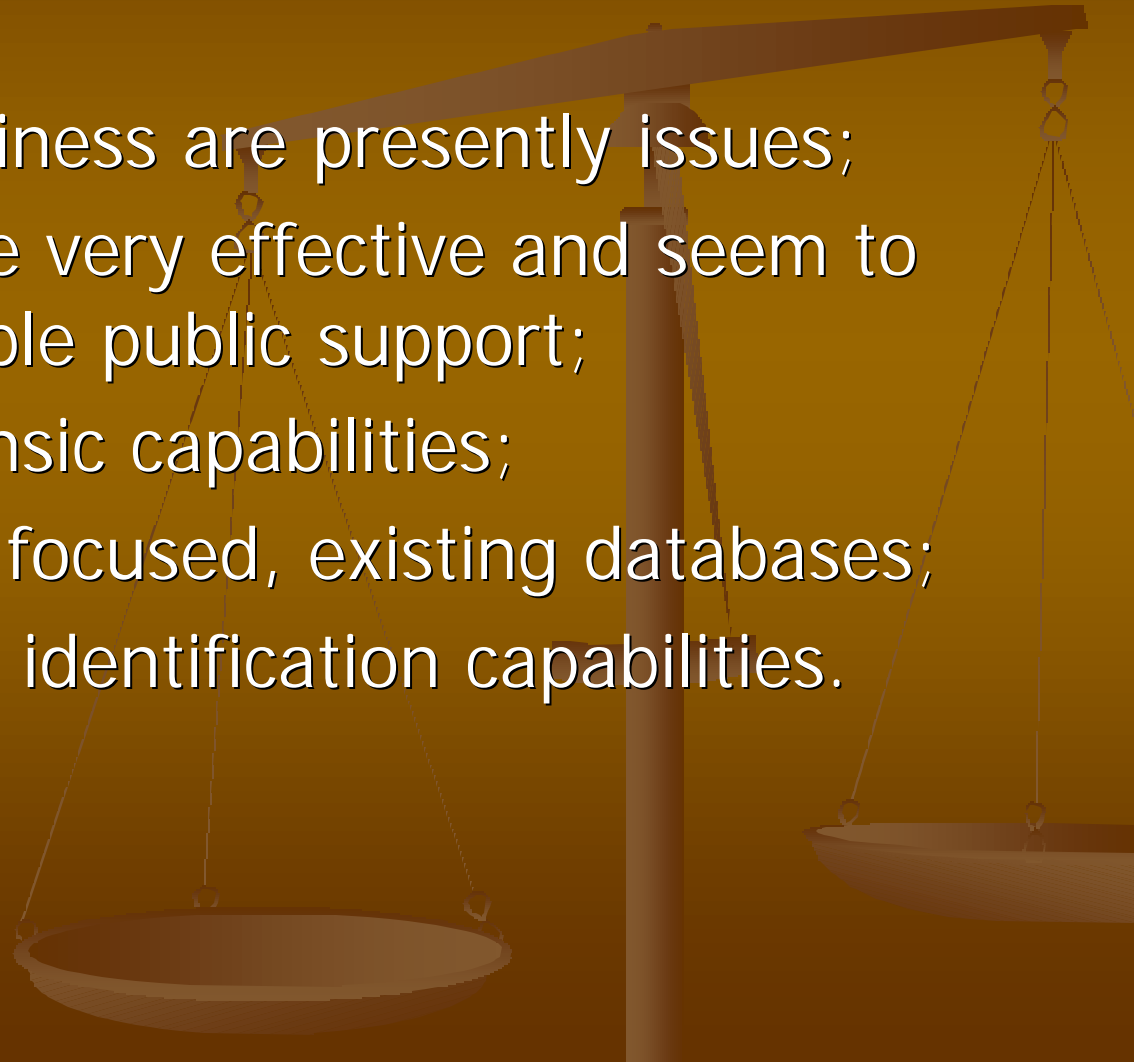
- Iris is effective; retinal scanning less effective;
- Few forensic capabilities;
- Subject cooperation is an issue;
- Costs are an issue;
- Verification capabilities, but not extensive identification capabilities;
- Size of existing databases is relative small.



Biometric Observations

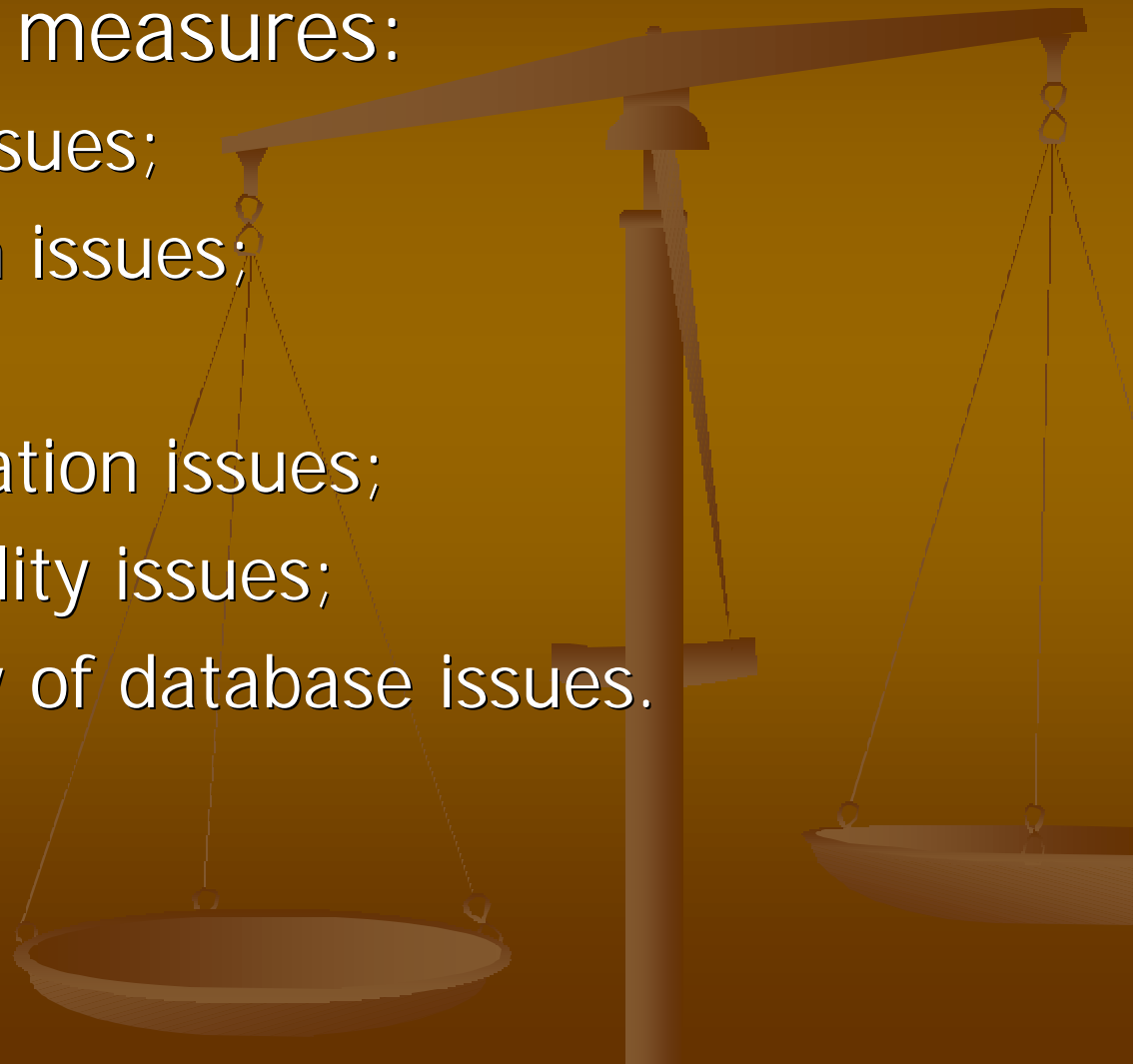
■ DNA Profiles:

- Costs and timeliness are presently issues;
- DNA profiles are very effective and seem to have considerable public support;
- Significant forensic capabilities;
- Expanding, but focused, existing databases;
- Verification and identification capabilities.

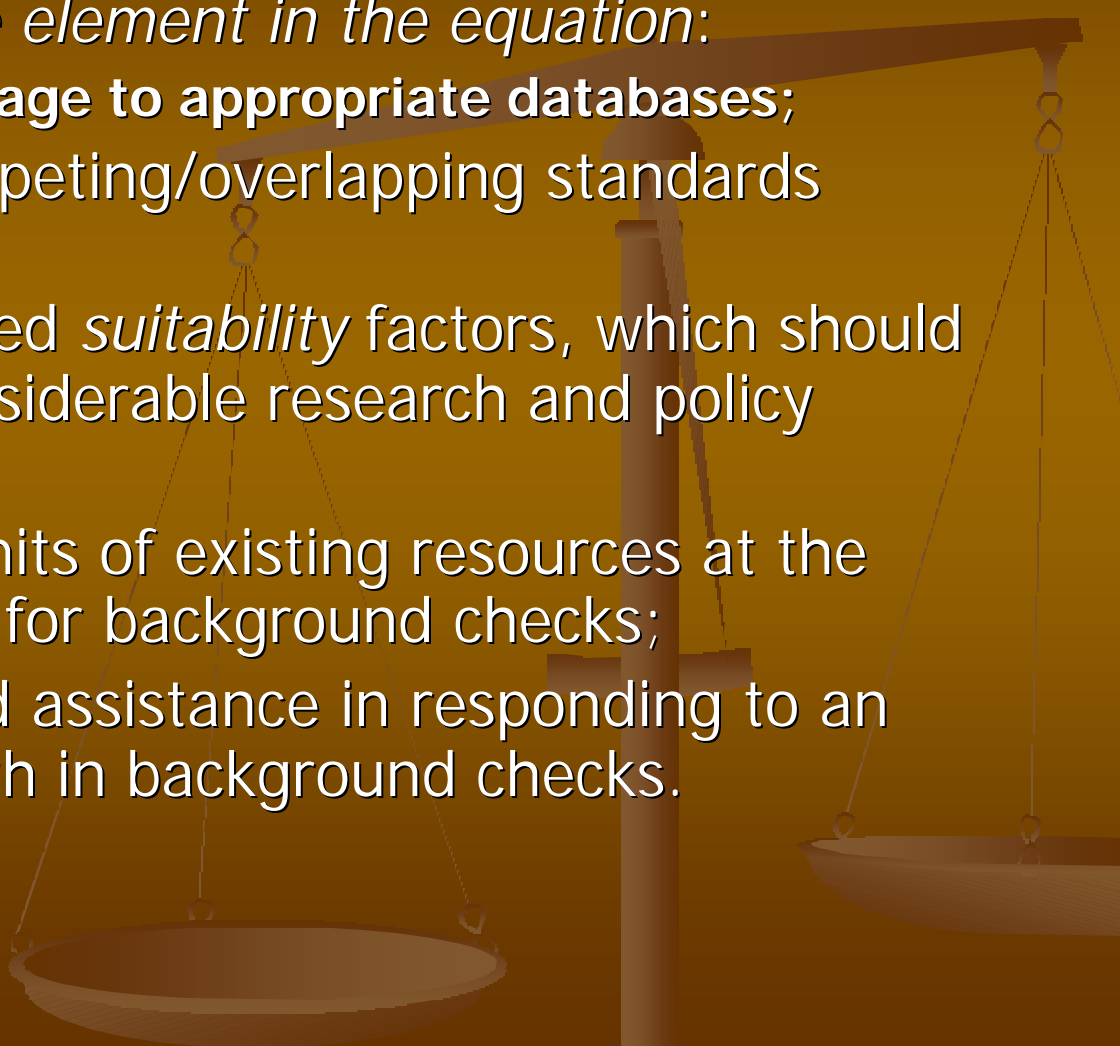


Biometric Observations

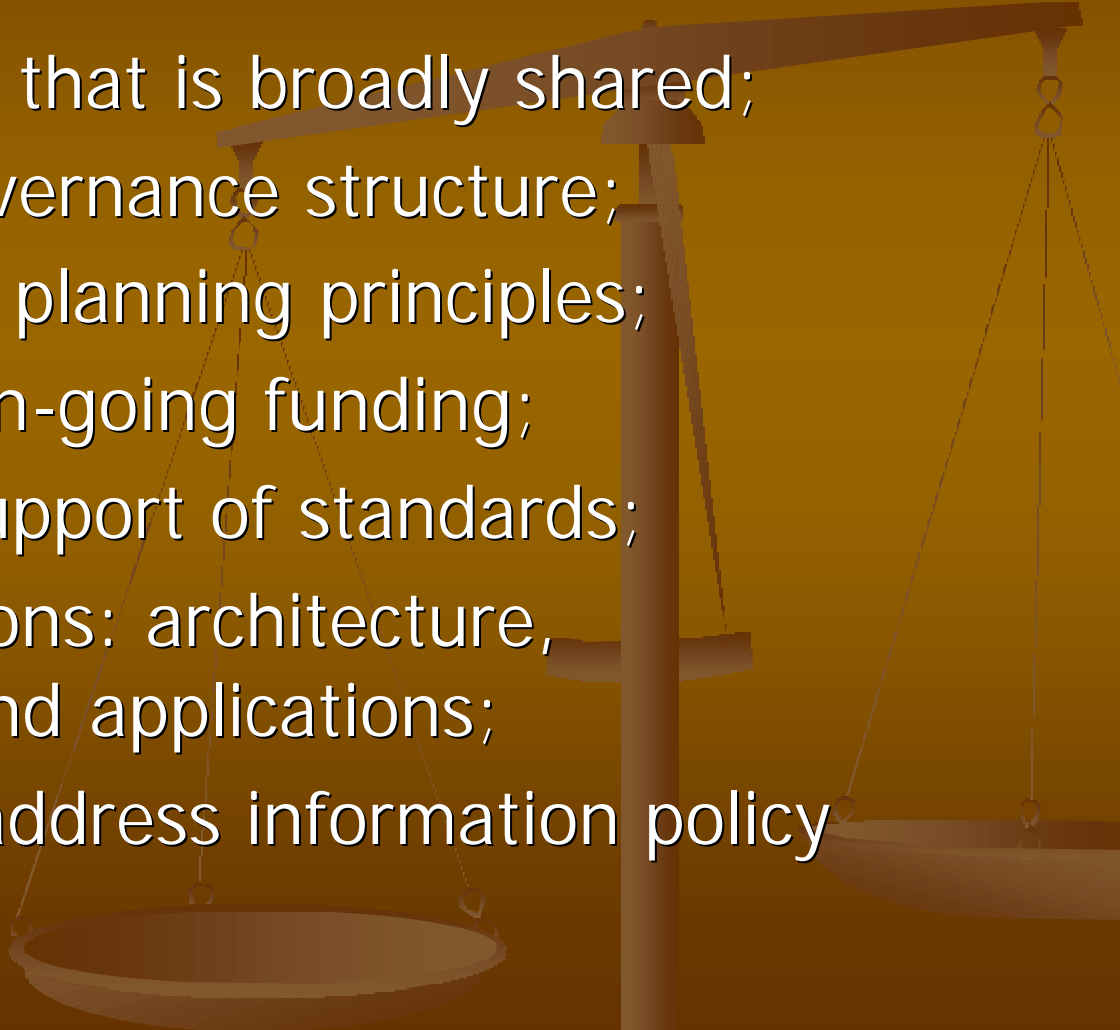
- Other biometric measures:
 - Effectiveness issues;
 - Implementation issues;
 - Cost issues;
 - Subject cooperation issues;
 - Forensic capability issues;
 - Size and quality of database issues.



General Observations

- Biometrics is just *one element in the equation*:
 - **Must also have linkage to appropriate databases;**
 - Reconciliation of competing/overlapping standards (image);
 - Haven't yet determined *suitability* factors, which should be the subject of considerable research and policy discussion;
 - We're pushing the limits of existing resources at the state and local levels for background checks;
 - Jurisdictions will need assistance in responding to an unprecedented growth in background checks.
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Universal Elements of Successful Integration Planning & Implementation

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- I. Articulate vision that is broadly shared;
 - II. Well-formed governance structure;
 - III. Follow strategic planning principles;
 - IV. Sufficient and on-going funding;
 - V. Adoption and support of standards;
 - VI. Technical solutions: architecture, infrastructure and applications;
 - VII. Anticipate and address information policy issues.

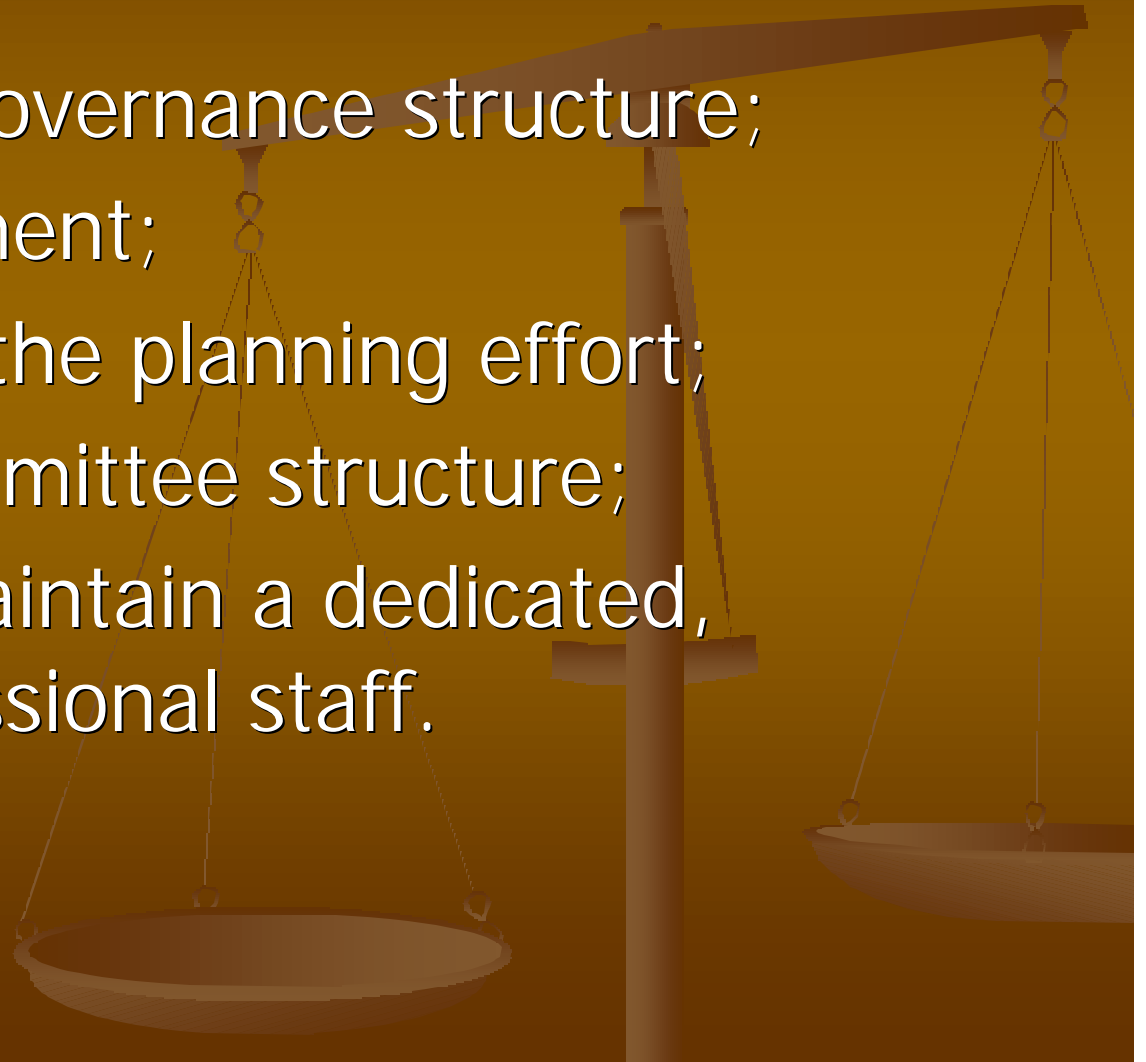
A Common Understanding

- A common definition of integration:
 - The ability to access and share critical information at key decisionpoints throughout the justice enterprise;
- Specific, measurable objectives;
- Internal, horizontal and vertical integration;
- Scope: Justice, Public Safety, Social Services, other relevant information systems;
- Recognize roles and responsibilities.

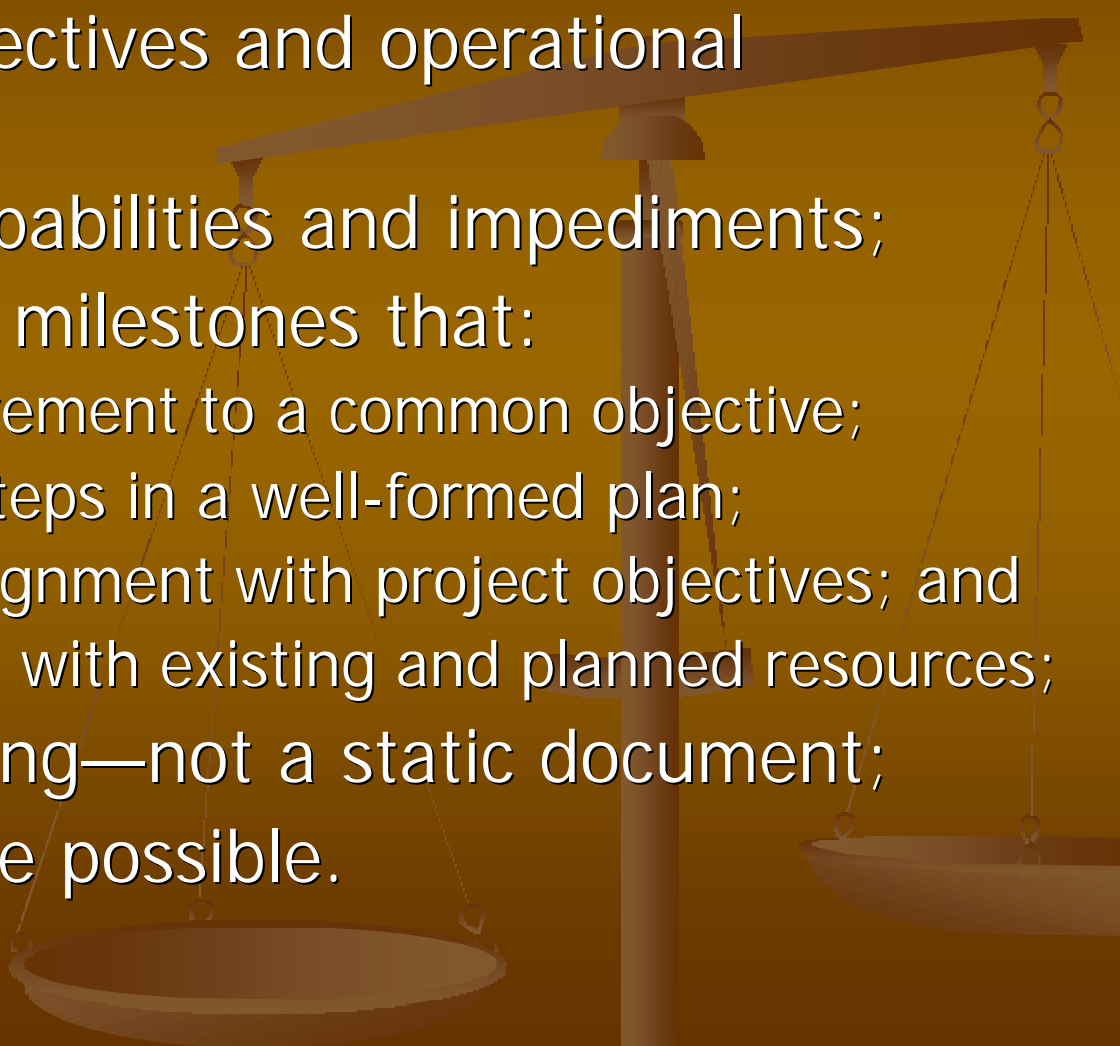


Governance Structure

- Formalize the governance structure;
- Foster commitment;
- Institutionalize the planning effort;
- Specialized committee structure;
- Develop and maintain a dedicated, invested, professional staff.

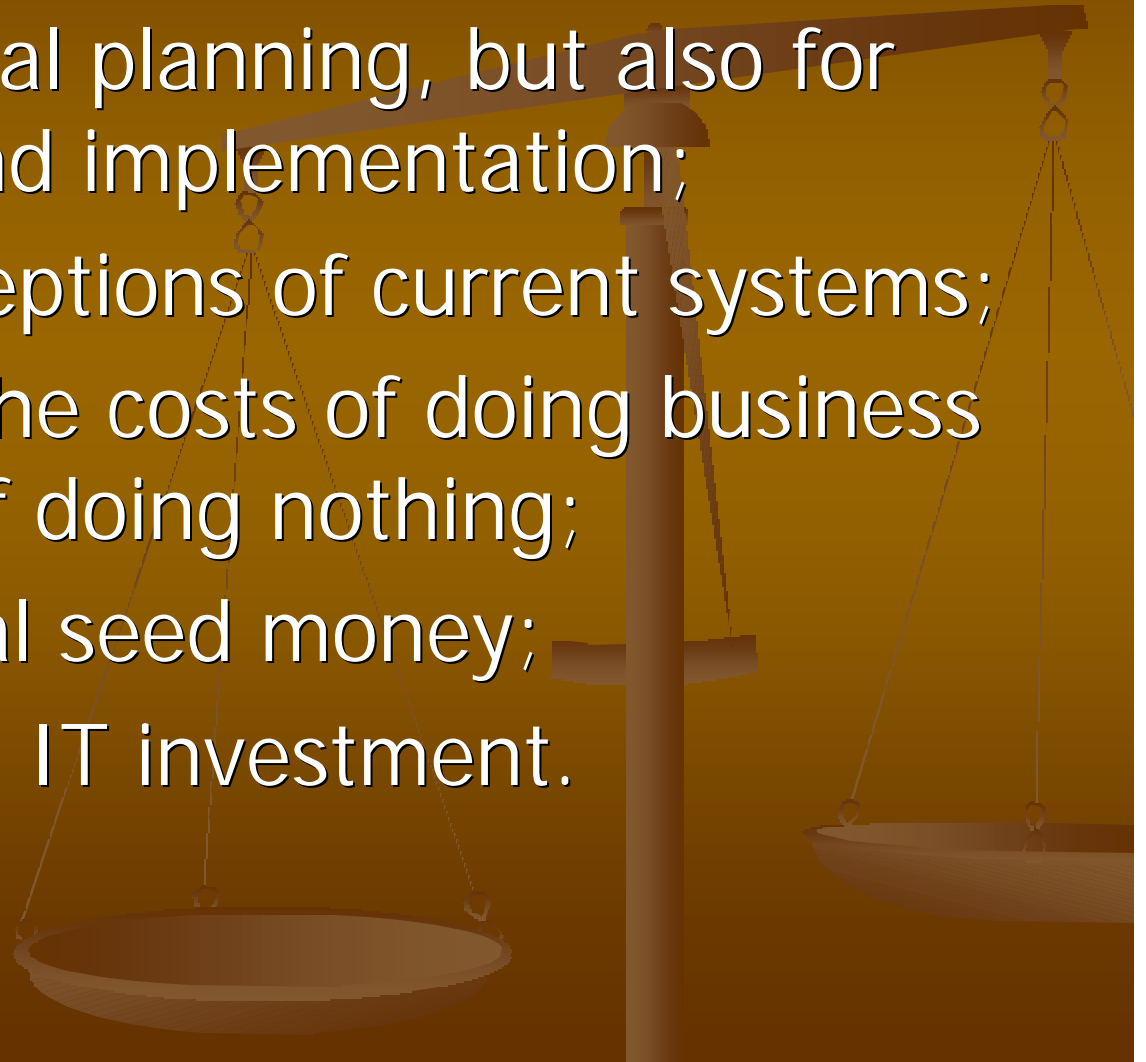


Strategic Planning

- Clearly define objectives and operational requirements;
 - Assess current capabilities and impediments;
 - Build with interim milestones that:
 - Demonstrate movement to a common objective;
 - Are measurable steps in a well-formed plan;
 - Allow on-going alignment with project objectives; and
 - Can be addressed with existing and planned resources;
 - Planning is on-going—not a static document;
 - Re-engineer where possible.
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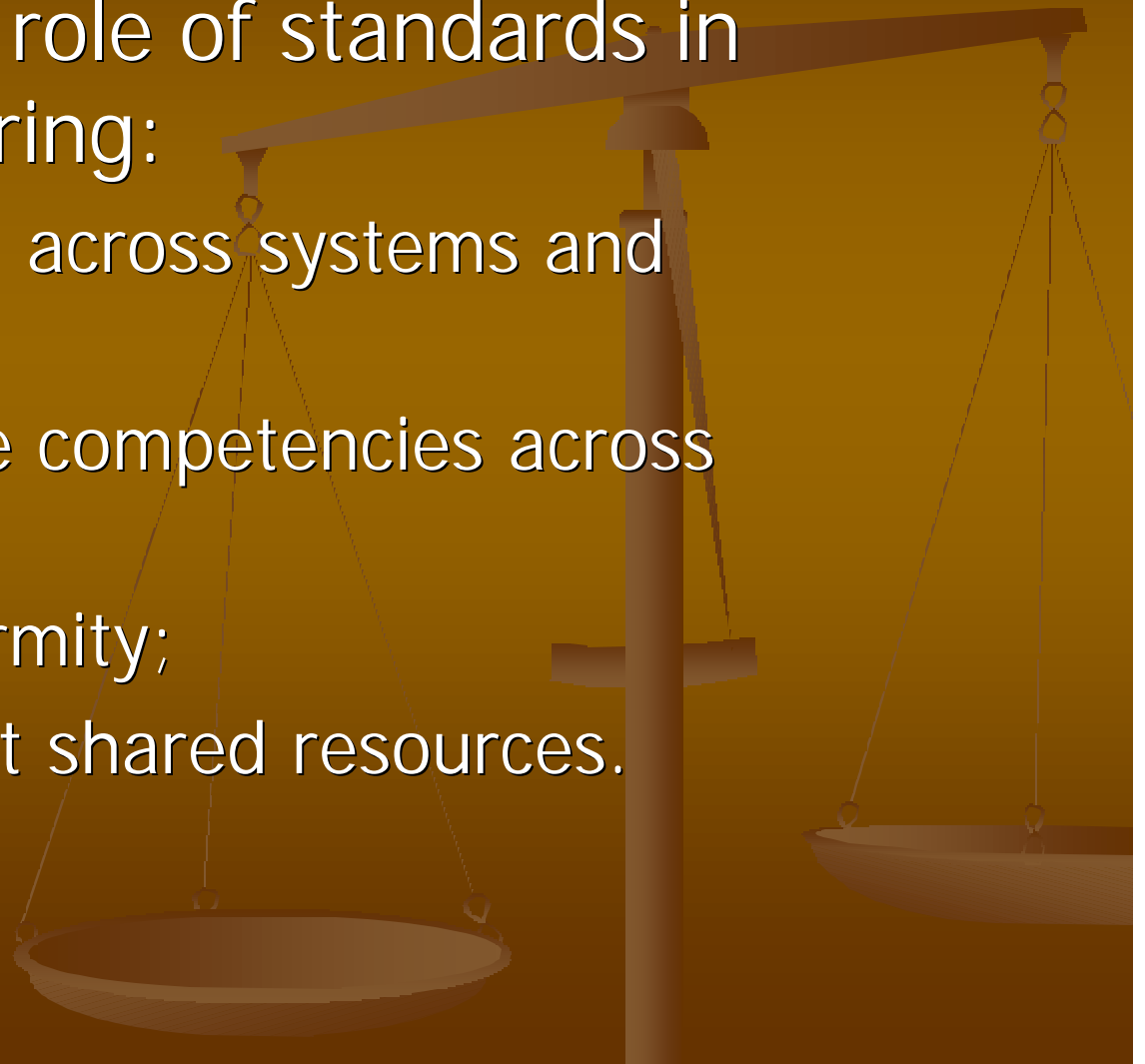
Funding

- Funding for initial planning, but also for development and implementation;
- Overcome perceptions of current systems;
- Recognize the the costs of doing business and the costs of doing nothing;
- Leverage federal seed money;
- Think long term IT investment.



Standards

- Understand the role of standards in information sharing:
 - Enables sharing across systems and jurisdictions;
 - Establishes core competencies across disciplines;
 - Promotes uniformity;
 - Builds important shared resources.

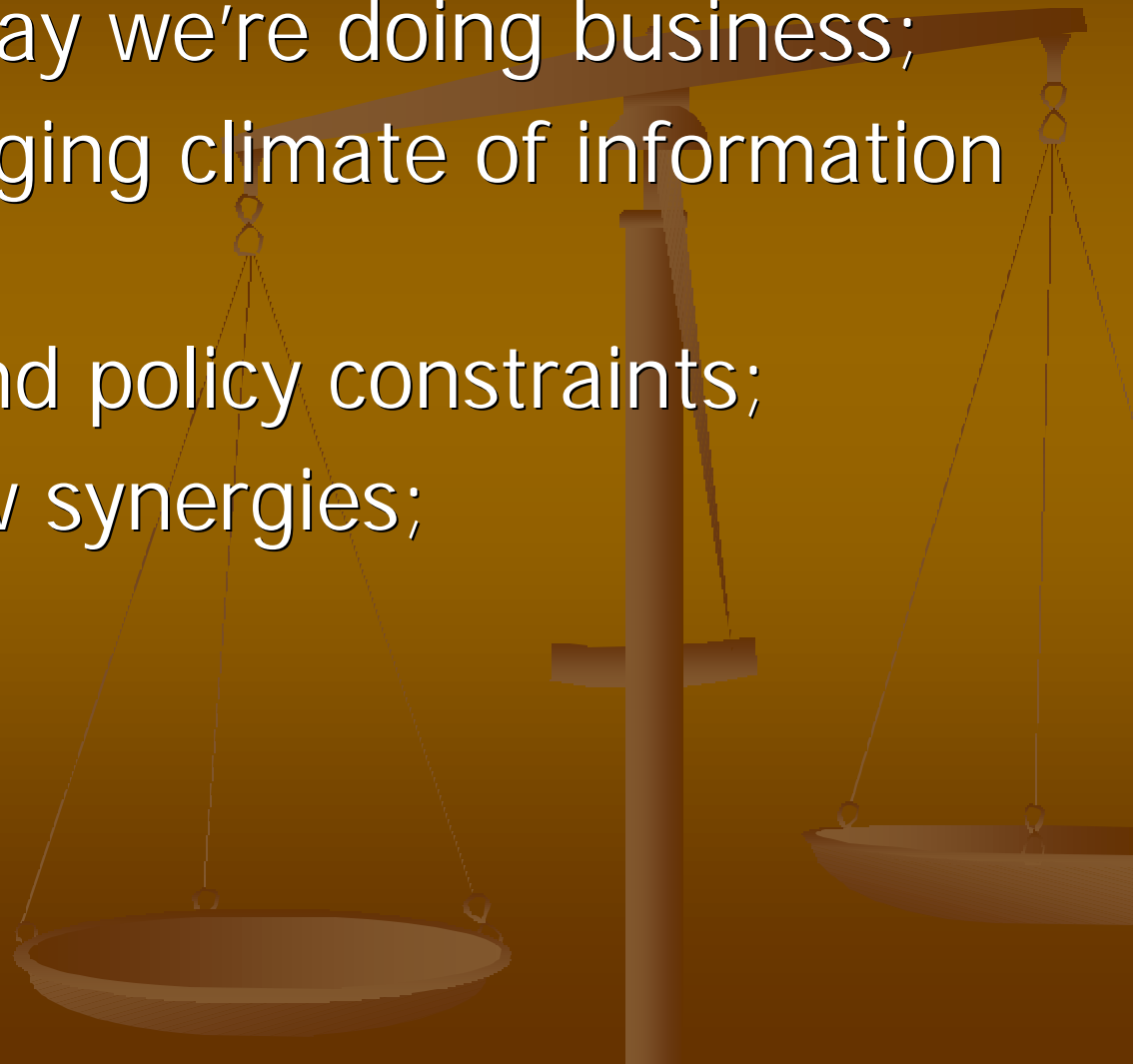


Technology

- Evolution of technology:
 - We have evolved from a *Mainframe-centric* world to a *PC-centric* world, and emerged into a *Network-centric* world;
 - We are quickly evolving into a *Content-centric* world;
- There is no ONE BEST WAY to build integration;
- There are a host of technical solutions to build information sharing capabilities;
- Leverage existing systems and information;
- Address technology at three levels:
 - Architecture;
 - Infrastructure;
 - Applications

Information Policy

- Changing the way we're doing business;
- Recognize changing climate of information sharing;
- Identify legal and policy constraints;
- Understand new synergies;
- Anticipate ...



CFA²

- Commitment and Collaboration:
 - Establish & maintain commitment by key stakeholders;
 - Continuously collaborate with stakeholders/users.
 - Focus and Funding:
 - Keep your project focused on objectives;
 - Leverage federal funding with state & local investment.
 - Action and Accountability:
 - Produce results in the short AND the long term;
 - Enforce accountability—milestones & measures.
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